



OPERATIONAL GUIDE



RESCUE - 11

During non emergency operation, BEFORE moving truck, conduct a walk-around of the truck

1. Verify all equipment is secure.
 2. Verify all doors are closed.
- * Double check that the cribbing compartments are closed securely.

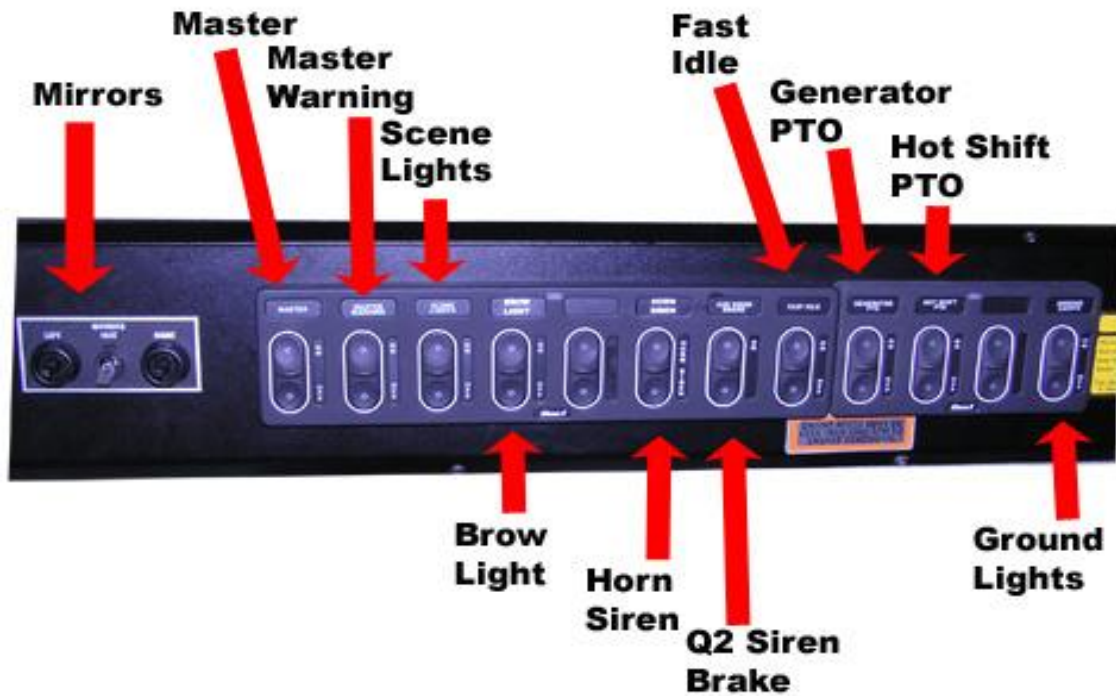
A. To start Rescue 11:

1. Turn Perko battery switch to on. (Drivers door foot well).
2. Turn ignition to on. (Right lower panel).
3. Wait for system test and boot up, when boot up complete the engine information screen (ahead of steering wheel) should show “eng not running”.
4. Press starter button until engine engages. (Right lower panel).
5. Check engine gages and warning lights, insure all readings are operational.

B. To prepare truck for RESPONDING.

1. Check Jake Brake is on (off in rain or snow) and set at high position. (Right lower panel).
Left switch is on/off. Right switch is High Range (up), Low Range (down).
The Ranges refer to
2. Check headlights are on (Left dashboard).
3. Adjust mirrors (left headliner switch panel).
4. Turn on Master switch and then Master Warning to activate warning lights. (Headliner switch panel, left switches).
5. Apply truck service brakes.
6. Release truck-parking brakes and select D on transmission panel.

7. Other controls of interest in upper headliner panel:



- Scene lights
- Brow light (12 volt, does NOT require generator).
- Horn siren control. Defaults to Siren, when you push the horn button the electronic siren sounds (unless electronic siren turned off in which case the electric horn sounds), when switched to Horn then both the air horn and electric horn sound.
- Q2b siren brake.

C. LEAVING THE STATION

- Ensure all personnel are properly seat belted and prepared to respond.
- Pull straight out of the station until the front bumper is on the driving lane white line.
- Turn left or right as needed.

D. ARRIVING AT SCENE and stopping the truck.

1. Maintain application of truck service brakes.
2. Apply truck parking brakes (pull square yellow button) and select N on transmission. (Right panel).
3. **First engage the fire pump:** Verify Engine is operating at less then 1000 RPM. On the left lower panel, pullout the safety toggle then move the Fire Pump shift lever to Neutral then Pump Position. Press D on transmission shift to apply engine power to pump. Notice that speedometer shows speed as driveshaft spins. Both indicator lights should be green on the Pump shift lever panel.
4. **Second engage the Generator:** Verify Engine is operating at less then 1000 RPM. On the upper headliner switch panel press Generator PTO switch to ON to engage ONAN Hydraulic electric generator PTO and start 110V power. The Hydraulic electric generator will operate at any engine RPM.
5. **Third engage the Hydraulic Tools:** Verify Engine is operating at less then 1000 RPM. On Upper headliner switch panel press HOT Shift PTO switch to ON to engage XRT Hydraulic pump system and start hydraulic power to the extrication tools. After PTO engages, the truck will fast idle at a fixed RPM of 1170. Fire pump will supply 110 lbs pressure, and electrical generator will continue to supply electrical power for MVA work.

NOTE: Once HOT Shift PTO is engaged you CANNOT engage or disengage either the ONAN Hydraulic Generator or the Fire pump.

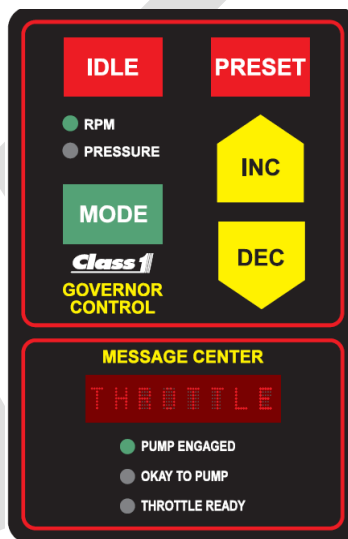
To control flow of Hydraulic power to the extrication tools use either the front controls under the driver's side pump step or the rear control located next to the rear reel. Make sure these valves are in the "Dump" position when finished using the hydraulic tools.

E. FIRE PUMP OPERATION using Class1 pump controls.

(NOTE: when the XRT Hydraulic power is engaged the pump will be running at a fixed 1170 rpm. All pressure control must be done with the gate valves.)

If the pump is engaged but no water is flowing remember to open the Tank-to-Pump valve, and the Fill-Tank valve to circulate water.

Photograph of Pump Pressure Governor



When first started or after pressing the “IDLE” button the pump control will show “MODE” on the display. To select an operating mode, press the “MODE” button to select either the PRESSURE or RPM mode. Press “INC” to increase pressure or RPM or “DEC” to decrease pressure or RPM. Pressing the “PRESET” button will run the pump at XXX PSI.

Note: if while operating in rpm mode the pressure increases more than 50 psi from the pressure logged at the last switch press, the governor will limit the pressure increase to no more than a 50 psi differential. The governor may reduce engine rpm to achieve this and the message “PSI LIMIT” will be displayed in the message center.

Note: the governor will not attempt to regulate pressure in this mode, only limit the differential pressure to 50 psi from the pressure present when the last switch was pressed.

When done pumping, press the “IDLE” button to return the engine to idle speed.

F. ROOF MOUNTED LIGHT TOWER operation.

1. Verify that there are no obstructions in the path of the light tower.
2. The on/off control is located in the front driver's side compartment along with the wire/wireless control.
3. Pull out the large red control button for **ONLY 1 SECOND** to activate the wireless remote control.
4. On the remote control press the "MAST UP" button to raise the mast, then press the "LIGHT", "PAN", and "TILT" controls to turn on/off and point the lights.
 - a. This can also be done automatically by rapidly pressing the "MAST UP" button twice (like double clicking a mouse.)
5. When done with light operations turn off the lights and allow them to cool before stowing the mast.
 - a. To auto stow the mast press the "MAST DOWN" button twice in quick succession, the mast will then return to the proper orientation and lower itself into the stowed position.
6. **Be sure that no buttons are illuminated on the remote after you believe it is stowed. Illuminated buttons indicate that the unit is not stowed.** Push in the large red control button to shut down the light tower system.
7. The remote control will work approximately 50' from the truck.



In the event the remote appears inoperative, simply push the red button in, wait 10 seconds and restart process.

G. SHUT DOWN OF SCENE operations.

- Systems are shutdown in reverse order of arrival procedures.
 - Before entering Cab verify all Hydraulic controls valves are turned to DUMP position and fire pump control is set for IDLE.
1. **First disengage the Hydraulic Tools:** On the upper headliner switch panel press HOT Shift PTO switch to OFF and shutdown the XRT Hydraulic pump system (extrication tools.) This will low idle the engine, disengage the XRT pump PTO, and stop power to the extrication tools. Engine should return to normal idle around 750 RPM.
 2. **Second disengage the Generator:** Verify Engine is operating at less than 1000 RPM. On the upper headliner switch panel with engine at idle, press Generator PTO switch to OFF and disengage the ONAN Hydraulic electric generator PTO and stop 110V power.
 3. **Third disengage the Fire-pump:** Verify Engine is operating at less than 1000 RPM. Apply truck service brakes. With the engine at idle, press "N" on transmission shift to stop engine power to

pump. When the speedometer needle drops to zero (0) speed, on the left lower panel, pullout the safety toggle then move the Fire Pump shift lever to Neutral, then move lever to Road Position. The truck is now ready for Road operations.

DRAFT

H. OFFICER'S SEAT

1. **LOW BAND RADIO:** the low band radio has 4 LED's, an on/off/volume knob, a LCD display and 6 push buttons marked SCAN, MON, up, down, HOME, and P4.



LOW Band Radio

800 Band Radio

- a. Push on/off/volume knob to turn radio on and off.
- b. Press the up or down channel selector button to select the desired frequency.
 - i. Freq #1 46.10 (Rensselaer County)
 - ii. Freq #2 46.22 (old county Freq 2)
 - iii. Freq #3 46.16 (EGFD operations)
 - iv. Freq #4 46.28 (EGFD Fire Police)
- c. Press and release the scan button to engage/ disengage Scan Mode. The green LED will blink while scanning and the scan symbol will display on the LCD display. If a nuisance frequency pops up you can hold down the scan button until you hear a tone then release the scan button. The nuisance frequency has temporally been deleted from scan. To cancel scan mode press the scan button and release.
- d. The Mon button allows you to monitor the EGFD operations frequency without the Private-Line (PL) engaged. Press and release the MON button opens the squelch and disables the PL.

- e. The Home button returns you to the Freq#3 EGFD operations frequency.
- f. The P4 button controls the brightness of the LCD display.

2. **800 BAND RADIO:** the 800 band radio has a LED, 5 white buttons, an EMER Red button, a LCD display, an on/off/volume knob and a rotary select switch.

- a. LEFT Knob PUSH ON/OFF
Push to turn on or off, turn to adjust volume
- b. RIGHT Knob SELECT
Push to select System or Group Option
Turn to change system/Group selection
- c. EMERERGENCY BUTTON
Depressing EMER button sends an emergency activation signal to the Rensselaer County Communications Center. Upon receipt of the activation signal, the County's console locks onto the radio's Unit Identification Number (UID). This sets in motion specific protocols to locate the radio and operator to resolve the emergency.
Emergency activations are cleared by turning the radio off.
- d. BKLHT
Turns radio display backlight on or off
- e. HOME
Returns radio to home channel (12-1 East Greenbush Dispatch)
- f. SCAN
Selects Group Scan, a pre-programmed scan list without local channels
- g. RWS
Selects Radio Wide Scan, a pre-programmed scan list including local channels
- h. BLANK
- i. Non-Operational
- j. ON/OFF
- k. Changing talk groups
- l. Emergency Button Activation/Clearing

3. **Code 3 Arrow Stick** control box. Similar to other control boxes.

a. Dimmer control

b. Aux button

c. Joy stick

d. Power button

4. Federal PA300 Siren control Similar to other siren controls.

5. Firecomm 3020 intercom control.

a. Insert photo, explain controls.

b.

Need to add information here.

6. KnoxBox

a. Insert photo

b. Explain printout messages

7. Overhead Center (Toyne light) are the red **OPEN Compartment** warning light and the red light tower up light

a. Toyne Light purposes:

8. Truck Computer Display screen is overhead near the officer and the speedometer. This display is restricted to HME chassis related messages.

9. On the right hand side of the floor are the Air Horn and Siren Pedals.

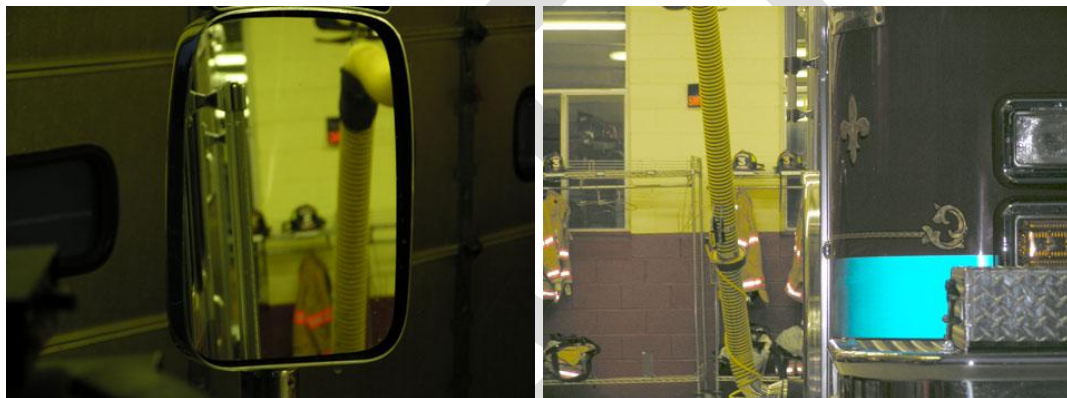
USE CAUTION, the air horns are extremely loud and will cause hearing damage to bystanders.

I. RETURNING TO SERVICE AT THE STATION

Backing in the station

CLEARANCE IS MINIMAL - PROCEED CAUTIOUSLY

These photos are a guide to the lineup. Notice the officer side mirror view and the building window frame lineup with the grab bars.



SHUTTING DOWN

Shut down the engine

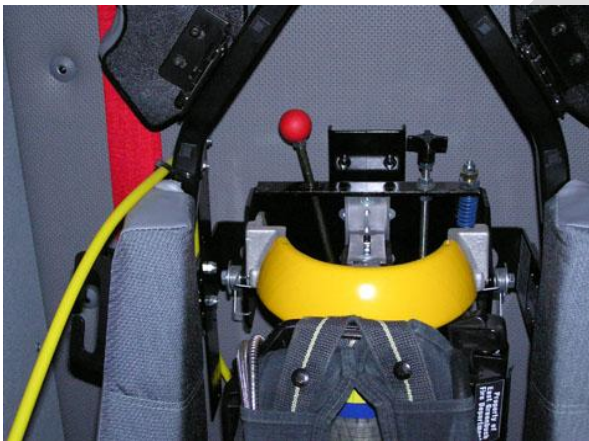
1. Check Fuel & Water levels. Fill as necessary.
2. Turn off ignition (lower right panel.)
3. Turn off the Wireless Headset and plug the charging line into the headset.
4. Insure Portable Radios are off and in chargers, and change batteries if necessary.
5. Fill out Run Report and list all equipment used and add appropriate comments.
6. Fill in "Mileage Out" on next Run Report.
7. Make sure the hydraulic control valves are in the "Dump" position when finished using the hydraulic tools.

Clean Extrication Equipment

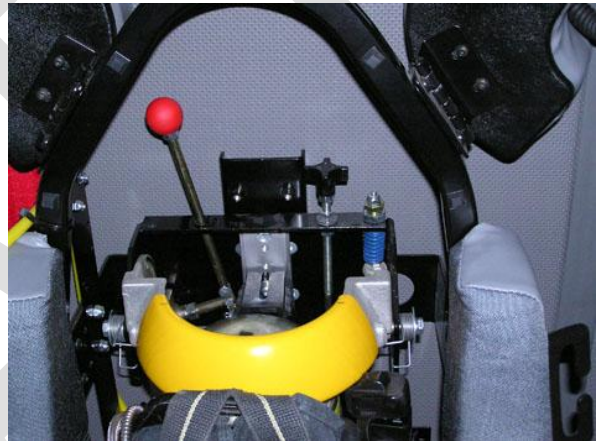
Clean and Replenish EMS Equipment and Supplies

1. CLEAN DOOR TRACKS
2. Check all equipment used during call.
3. Ensure SCBA AFTER USE REPORTS are completed and check SCBA brackets.
 - a. Pull Red locking knob up to secure top bracket.

(Note Red locking knob positions and Black adjustment knob on right.)



Red Knob down -Bracket Not Locked



Red Knob up - Bracket Locked.







NOTE: This rescue truck was put into service new in September of 2009 with newly designed truck components and systems, and newly designed rescue equipment. There may be times when systems, devices, and equipment appear to be inoperative, or malfunctioning. BEFORE reporting the equipment as out-of-service or inoperative, please ensure you are completely familiar with it, and using it correctly. If you have any doubts about the operation of an item, or a system, request assistance from a Truck Officer, or the Station Chief.

TRUCK SPECIFICATIONS

Height	9'7"	4" Supply Hose	500'
Width	104"	Upper Mattydale	200'
Length	34'9"	Lower Mattydale	150'
Weight	GVWR 42,740 lbs.	2 ½" Hose	200'
Tank Size	500 Gallons		
Pump Size	1250 GPM		

J. PELICAN LIGHTS

There are two (2) Pelican 9460 Remote Area Lighting Systems containing two (2) LED light units each. These are battery operated units that require maintenance, and are contained in bright yellow waterproof cases.

Operation

Open the case and remove the light heads and masts.

Screw the light head onto the mast head.

Insert the mast into the case.

Plug the blue power plugs into the blue sockets in the side of the case.

Raise the masts to the required height.

Press the keypad ONCE for FULL power, Twice for LOW power, three times for off.

Press and hold the keypad for 3 SECONDS for FLASHING mode, once more for off.

CHARGING

DO NOT OPERATE THE LIGHT UNIT WHEN CHARGING

DO NOT CHARGE WITH THE COVER CLOSED

Note: both batteries charge simultaneously when the charger is plug into either socket.

1. Insert the chargers lead into either case socket.
2. Plug the charger into a 120v supply and **charge until the charger indicator light is GREEN.**
 - a. **Red** indicates fast charge mode.
 - b. **Yellow** indicates 90% charged.
 - c. **Green** indicates fully charged and in maintenance mode.